

## **BSRG AGM 2016 – CONFERENCE SCHEDULE**

### **SUNDAY 18<sup>th</sup> DECEMBER 2016**

Day: Workshops & Fieldtrip

1730-2030: Icebreaker Reception, Sedgwick Museum of Earth Sciences

### **MONDAY 19<sup>th</sup> DECEMBER 2016**

#### **SESSION 1 – KEYNOTES & GENERAL SESSION (Wolfson Theatre)**

*Session chair: Lotty Gladstone (University of Cambridge)*

0830-0845 – Welcome

0845-0915 – Peter Burgess (keynote): *How realistic is my sequence stratigraphic interpretation? Quantitative methods to help address this question*

0915-0945 – Joris Eggenhuisen (keynote): *Things I used to know: the static bed, threshold of motion, bed load, and suspended sediment transport*

0945-1000 – Adrian Hartley: *Braided or Meandering: Are Fluvial Facies Models Useful?*

1000-1015 – Martin Wells: *Searching for the source of Early Cretaceous clastic reservoirs in the Middle East*

1015-1030 – Jaco Baas: *Novel Mixed Sand-Mud Bedforms and Primary Current Stratification in the Aberystwyth Grits and Borth Mudstone Formations*

---1030-1100: *Coffee & Discussion (Buttery)*---

#### **SESSION 2A – DEEP MARINE SEDIMENTARY ENVIRONMENTS I (Wolfson Theatre)**

*Session chair: Peter Haughton (University College Dublin)*

1100-1115 – Gillian Apps: *Stratal modelling and structural paleotopography in deepwater basins*

1115-1130 – Sarah Southern: *Varied Stratigraphic Expressions of Slope Channel Evolution*

1130-1145 – Franziska Palm: *Variation of cross-sectional geometries in submarine channels*

1145-1200 – Lilla Tokes: *Degree of confinement of turbidity currents and deposit tabularity across different scales based on meta-data analysis*

#### **SESSION 2B – SHALLOW MARINE & NEARSHORE SEDIMENTARY ENVIRONMENTS (Jock Colville Hall)**

*Session chair: Gary Nichols (RPS Nautilus)*

1100-1115 – Claire Keevil: *The region of fluvial dominance within the tidal-fluvial transition*

1115-1130 – Arnoud Slootman: *Geological record of shallow-marine, supercritical tsunami backwash: Field observations and numerical simulation*

1130-1145 – Arjan de Leeuw: *Field insights into sediment delivery to the northwest Black Sea: the Late Miocene fluvio-deltaic Balta Fm of the East Carpathian Foreland*

1145-1200 – M. Mostafizur Rahman: *Detailed architecture of fluvio-deltaic sandstones: a subsurface and virtual outcrop (VO) study of the Scalby Formation, NE England*

#### **SESSION 2C – SEDIMENTARY CLIMATE RECORDS & GLACIAL ENVIRONMENTS I (JCR Games Room)**

*Session chair: Gregory Price (Plymouth University)*

1100-1115 – Elizabeth Atar: *Atmospheric and oceanic controls on the deposition of the Kimmeridge Clay Formation*

- 1115-1130 – Alena Ebinghaus: *Increased seasonality across the early Danian Dan-C2 hyperthermal: A case study from the Boltysh impact crater, Ukraine*
- 1130-1145 – Zvi Steiner: *The effect of bioturbation in pelagic sediments: Lessons from radioactive tracers and planktonic foraminifera in the Gulf of Aqaba, Red Sea*
- 1145-1200 – Madeleine Vickers: *Are glendonites reliable indicators of cold climates? Evidence from their paragenesis*

SESSION 3A – DEEP MARINE SEDIMENTARY ENVIRONMENTS II (Wolfson Theatre)

*Session chair: Peter Haughton (University College Dublin)*

- 1205-1220 – Jan de Leeuw: *Inversion of turbidity current flow properties from grain-size distribution of submarine channel deposits*
- 1220-1235 – Pauline Cornard: *Supercritical bedforms, field evidence and implications, in a deep-marine base-of-slope environment, Middle Eocene, Ainsa Basin, Spanish Pyrenees*
- 1235-1250 – Andy Pulham: *Sedimentary Structures in Deepwater Paleogene Wilcox Core Data, Gulf of Mexico, USA; Some New Insights into Deposition of Sands from High Magnitude Turbulent Flows*
- 1250-1305 – Lotty Gladstone: *The development of convolute lamination: insights from field observations and simple calculations*

SESSION 3B – ALLUVIAL FANS & S2S (Jock Colville Hall)

*Session chair: Gary Nichols (RPS Nautilus)*

- 1205-1220 – Björn Nyberg: *Global Drainage Patterns of Modern Sedimentary Basins and the Anthropocene*
- 1220-1235 – Martin Stokes: *Alluvial fans as recorders of volcanic island denudation*
- 1235-1250 – Sam Brooke: *Decoding sediment transport dynamics on alluvial fans from spatial changes in grain size, Death Valley, California*
- 1250-1305 – Stephen Watkins: *Are landscapes buffered to high-frequency climate change? A comparison of sediment fluxes and depositional volumes in the Corinth rift, central Greece, over the past 130 kyrs*

SESSION 3C – SEDIMENTARY CLIMATE RECORDS & GLACIAL ENVIRONMENTS II (JCR Games Room)

*Session chair: Gregory Price (Plymouth University)*

- 1205-1220 – Marie Busfield: *On the hunt for Cryogenian striated pavements...*
- 1220-1235 – Thomas Vandyk: *Descent into the Snowball: the sedimentary record of entry into Cryogenian glaciation in Death Valley, California*
- 1235-1250 – Dan Le Heron: *A diamictite dichotomy: Glacial conveyor belts and olistostromes in the Neoproterozoic of Death Valley, California, USA*
- 1250-1305 – Stephen Davison: *Glacial or non-glacial? A new field-based examination of the Permo-Carboniferous Sakoa Group of southern Madagascar*

---1305-1355: Lunch (Main Dining Hall)---

SESSION 4 – KEYNOTES (Wolfson Theatre)

*Session chair: Stephen Flint (University of Manchester)*

- 1355-1425 – Jan Alexander (keynote): *Some sedimentary consequences of discharge variability and rate of change*

1425-1455 – Massimiliano Ghinassi (keynote): *Planform evolution of meandering river channels and their sedimentary products: expansional vs. downstream-migrating point bars*

SESSION 5A – MODERN DEEP MARINE ENVIRONMENTS (Wolfson Theatre)

*Session chair: Stephen Flint (University of Manchester)*

1500-1515 – Matthieu Cartigny: *Knick points in turbidity current channels; dynamics and preservation potential*

1515-1530 – Maria Azpiroz: *First detailed measurements of turbidity currents downstream from submarine canyon bend show sustained river-reversed secondary circulation*

1530-1545 – Marta Payo Payo: *Influence of Coriolis forces on turbidity currents*

1545-1600 – Sophie Hage: *Linking cyclic steps of crescent-shaped bedforms and lenses of massive sand through direct field observations*

1600-1615 – Chris Stevenson: *Reconstructing the 1929 Grand Banks Event, offshore Newfoundland*

SESSION 5B – ANCIENT LIFE & SEDIMENTARY ENVIRONMENTS (Jock Colville Hall)

*Session chair: Sarah Davies (University of Leicester)*

1500-1515 – Neil Davies: *Indirect signatures of life in the alluvial stratigraphic record*

1515-1530 – Ginny-Marie Bradley: *Lower Palaeozoic pre-land plant palaeosystems: A case where the present is not the key to the past...?*

1530-1545 – Anthony Shillito: *Shapes on a plane: exceptionally preserved substrates provide palaeoenvironmental insights into intervals of non-deposition*

1545-1600 – Carys Bennett: *The habitats of tetrapod terrestrialisation in the early Carboniferous*

1600-1615 – Jon Noad: *The Sedimentology of Bone Beds: a review and report on a new Triassic marine bone bed*

SESSION 5C – PROVENANCE & PROPERTIES (JCR Games Room)

*Session chair: Shane Tyrrell (NUI Galway)*

1500-1515 – Jessica Franklin: *Provenance of Triassic Sandstones – assessing the link between source area and sandstone reservoir quality*

1515-1530 – Iain Greig: *Heavy Mineral Stratigraphy and Provenance of Triassic Sediments of the Central North Sea*

1530-1545 – Brenton Fairey: *Detrital mica and zircon geochronology as evidence for the Devonian-Carboniferous “Old Red Staging Area” and development of super-mature sediments in the southern Irish offshore*

1545-1600 – Christof Liebermann: *Provenance of Sediments from Sumatra, Indonesia*

1600-1615 – Shuqing Yao: *Unravelling the controls on fault-associated dolomitisation geometries: examples from the Benicàssim outcrop analogue (Maestrat basin, E Spain)*

---1615-1640: *Coffee & Discussion (Buttery)*---

SESSION 6 – GENERAL POSTER SESSION (Main Concourse)

1640-1840 – Posters (see details below) & Prize-giving

---1900-2200: *Conference Dinner (St. John’s College)*---

## **TUESDAY 20<sup>th</sup> DECEMBER 2016**

### **SESSION 7 – AGM, KEYNOTE & GENERAL SESSION (Wolfson Theatre)**

*Session chair: Stephen Vincent (CASP, University of Cambridge)*

0845-0930 – BSRG AGM

0930-1000 – Alastair Robertson (keynote): *Sedimentology and oceanic island arcs*

1000-1015 – Sarah Davies: *Early Mississippian palaeoenvironments and their significance for tetrapod preservation*

1015-1030 – Jeff Peakall: *A first process model for channel-lobe transition zones*

1030-1045 – Hugh Sinclair: *Abrasion set limits on gravel flux to the Ganga foreland basin*

*---1045-1115: Coffee & Discussion (Buttery)---*

### **SESSION 8A – SUBAQUEOUS SEDIMENTARY ENVIRONMENTS (Wolfson Theatre)**

*Session chair: David Hodgson (University of Leeds)*

1115-1130 – Thomas Dodd: *Depositional architectures within deep lacustrine turbidite fans: examples from the Early Cretaceous, North Falkland Basin*

1130-1145 – Luz Elena Gomis Cartesio: *Lateral Variability In Upper Slope, Shelf Edge And Shallow Marine Stratigraphy Along A 70 Km Strike Transect: Karoo Basin, South Africa*

1145-1200 – Miquel Poyatos-More: *Spatial-temporal evolution of sedimentary systems, transition zones and stratigraphic sequences in an exhumed basin margin succession*

### **SESSION 8B – CARBONIFEROUS SEDIMENTARY BASINS (Jock Colville Hall)**

*Session chair: John Howell (University of Aberdeen)*

1115-1130 – Sarah Newport: *Sedimentology and microfacies development within a slope to basin floor mudstone succession: Carboniferous Bowland Shale Formation, NW England (UK)*

1130-1145 – Joe Emmings: *Through Highs and Lows: Burial of Organic Matter in the Mississippian Bowland Shale*

1145-1200 – Lucy Manifold: *Controls on facies heterogeneity within the Carboniferous of the Pennine Basin*

### **SESSION 8C – TECTONICS & SEDIMENTS (JCR Games Room)**

*Session chair: Maurice Tucker (University of Bristol)*

1115-1130 – Tamsin Blayney: *Indentation of the Pamirs with respect to the northern margin of Tibet: constraints from the Tarim basin sedimentary record*

1130-1145 – Mark Wilkinson: *Why are the Highlands high? Cenozoic uplift and erosion in Scotland*

1145-1200 – Stephen Vincent: *From rifting to orogeny; using sediments to unlock the secrets of the Greater Caucasus*

### **SESSION 9A – DEEP MARINE SEDIMENTARY ENVIRONMENTS III (Wolfson Theatre)**

*Session chair: David Hodgson (University of Leeds)*

1205-1220 – Xiaoming Zhao: *A submarine fan: juxtaposition of slope aprons with straight channels*

1220-1235 – Marco Pizzi: *Sedimentation versus deformation rates as a control on the architecture of deep-water channel systems: observations from the toe-thrust region of the Niger Delta slope*

1235-1250 – Marco Patacci: *Petrography of turbidites and XRD analysis of their mudstone caps, insights from the Castagnola system, NW Italy*

1250-1305 – Andrea OrtizKarpf: *Influence of Salt-Related Seabed Topography on Mass-Transport Complex (MTC) Sedimentation*

SESSION 9B – SEISMIC & SEQUENCE STRATIGRAPHY (Jock Colville Hall)

Session chair: John Howell (University of Aberdeen)

1205-1220 – Tim Luber: *Qualitative and quantitative description of a late Barremian to Aptian forced-regression, Essaouira-Agadir Basin, Morocco*

1220-1235 – Bonita Barrett: *3D sequence stratigraphic modelling: shallow marine systems along active fault segments*

1235-1250 – Chris Jackson: *Seismic geomorphological analysis of the Farsund Basin, offshore southern Norway: Identification of Rivers, Reefs and Shorelines*

1250-1305 – Catherine Russell: *Reducing uncertainty in seismic interpretation of fluvial successions through prediction of point-bar form and heterogeneity*

SESSION 9C – CARBONATES & EVAPORITES (JCR Games Room)

Session chair: Maurice Tucker (University of Bristol)

1205-1220 – Ed Hough: *Primary sedimentary structures in bedded halite – indicators of depositional conditions from the mid-Triassic of the UK*

1220-1235 – Hao Tang: *Early Cambrian archaeocyathan-microbialite reefs in South China*

1235-1250 – Alan Smith: *Molar-tooth structure: a Precambrian calcite network dependent on bacterial EPS?*

1250-1305 – Andreas Paul: *Exploring the potential for the formation of discrete stromatolite build-ups from microbial mats in the Abu Dhabi coastal sabkha*

---1305-1355: Lunch (Main Dining Hall)---

SESSION 10 – KEYNOTE (Wolfson Theatre)

1355-1425 – Sanjeev Gupta (keynote): *'Robotic' sedimentary geology on Mars - reconstructing ancient sedimentary systems at Gale crater*

SESSION 11A – CONTINENTAL SEDIMENTARY ENVIRONMENTS I (Wolfson Theatre)

Session chair: Neil Davies (University of Cambridge)

1430-1445 – Steve Banham: *Anatomy of an ancient aeolian sandstone on Mars: the Stimson formation in Gale Crater, Mars*

1445-1500 – William McMahon: *The 'Forgotten' Torridonian: Alluvial (upper flow regime) and aeolian bedforms in the pre-vegetation Meall Dearg Formation, NW Scotland*

1500-1515 – Zoe McKellar: *Sedimentary analysis of the Lower Old Red Sandstone of the northern Midland Valley, Scotland*

1515-1530 – Catherine Cripps: *The influence of allogenic controls on facies variability within two basins: the Triassic Sherwood Sandstone Group of Central and Northern England*

SESSION 11B – EXPERIMENTS & MODELLING IN SEDIMENTOLOGY I (Jock Colville Hall)

Session chair: Esther Sumner (University of Southampton)

1430-1445 – Florian Pohl: *CHANGE! A turbidity current's transition from bypass to deposition – Experimental results & comparison to a field case from the Karoo, South Africa*



- 1445-1500 – Viet Luan Ho: *Multi-pulsed Turbidity Currents – A Scaling Analysis and Applications for Turbidite Interpretation*
- 1500-1515 – Paul Jarvis: *Formation and evolution of transverse bedforms: An experimental study*
- 1515-1530 – Age Vellinga: *Why do some turbidity currents create upstream migrating bedforms while others do not?*

SESSION 11C – PREDICTING SEDIMENTARY ARCHITECTURE (JCR Games Room)

*Session chair: Michael Flowerdew (CASP, University of Cambridge)*

- 1430-1445 – Ewan Gray: *Predicting facies distribution in Triassic fluvial systems of the central North Sea using subsurface data*
- 1445-1500 – Adam McArthur: *Application of deep-water palynofacies scheme to classify reservoir architecture in the Campos Basin, offshore Brazil*
- 1500-1515 – Menno Hofstra: *The depositional architecture of basin-floor fan systems by wireline log character: an integrated dataset from the Karoo Basin*
- 1515-1530 – Aurélie Privat: *Early post-rift facies and architectural changes within a coarse-grained deep-water system deposited above a Mass Transport Complex (MTC)*

SESSION 12A – CONTINENTAL SEDIMENTARY ENVIRONMENTS II (Wolfson Theatre)

*Session chair: Neil Davies (University of Cambridge)*

- 1535-1550 – Giacomo Medici: *Characterizing flow heterogeneities in a red-bed fluvial succession: Triassic St Bees Sandstone Formation (NW England, UK)*
- 1550-1605 – Amanda Owen: *Understanding fluvial facies distribution within sedimentary basins: Bighorn Basin, Wyoming*
- 1605-1620 – Michelle Shiers: *Controls on the depositional architecture of fluvial point-bar elements from a coastal plain setting*

SESSION 12B – EXPERIMENTS & MODELLING IN SEDIMENTOLOGY II (Jock Colville Hall)

*Session chair: Esther Sumner (University of Southampton)*

- 1535-1550 – Orla Bath Enright: *Gone with the flow: transportation of soft-bodied organisms in turbidity currents*
- 1550-1605 – Megan Baker: *The Effect of Clay Type on the Properties of Cohesive Sediment Gravity Flows*
- 1605-1620 – Diana Sher: *Gravity currents: entrainment, stratification and self-similarity*

SESSION 12C – CLAY MINERALS (JCR Games Room)

*Session chair: Michael Flowerdew (CASP, University of Cambridge)*

- 1535-1550 – Luke Wooldridge: *Biofilm origin of clay-coated sand grains*
- 1550-1605 – Joshua Griffiths: *Predicting Clay Mineral Distribution in Sandstone Reservoirs Using an Analogue Holocene Estuarine Succession*
- 1605-1620 – Chris Jeans: *Red Chalk, Secondary Bentonite and Volcanogenic Glauconite*

---1620-1640: *Coffee & Discussion (Buttery); Meeting Closes---*

## **POSTERS**

There is a designated 2 hour poster session, in which each presenter has been allocated a 20 minute slot (indicated below), during which time they can be found next to their poster and will be on hand to verbally present their data and results, and answer any questions. Poster boards are numbered as follows.

### **GROUP 1 – CONTINENTAL SEDIMENTARY ENVIRONMENTS**

1. Emese Szocs: *Diagenetic evaluation of Pannonian lacustrine deposits in the Makó Trough, southeastern Hungary* [1640-1700]
2. Alena Ebinghaus: *Lake sedimentological and ecological response to hyperthermals: Boltys impact crater, Ukraine* [1700-1720]
3. Nigel Woodcock: *Sedimentological and ichnological analysis of the Upper Carboniferous Bude Formation, Culm Basin, SW England* [1720-1740]
4. Roger Burgess: *Triassic Palynology; correlation and environmental reconstruction of the Skagerrak Formation from the central North Sea* [1740-1800]
5. Colm Pierce: *A multiscale analysis of the Entrada Formation – an approach to erg reconstruction and geomodelling of a wet aeolian reservoir analogue* [1800-1820]
6. Ross Pettigrew: *Aeolian- Sabkha Interactions in the Cedar Mesa Sandstone, Southwestern USA* [1640-1700]
7. Alexander Whittaker: *Alluvial fan sensitivity to glacial-interglacial climate change: Case studies from Death Valley* [1700-1720]
8. Hugh Sinclair: *Cosmogenic nuclide concentrations in Neogene rivers of the Great Plains reveal the evolution of fluvial storage and recycling* [1720-1740]
9. Tom Perkins: *Chemical weathering fluxes and processes in the Mekong River* [1740-1800]
10. David Somerville: *Image analysis of fluvio-lacustrine depositional environments, East African Rift: sedimentary architectures and relationship to rift stage* [1800-1820]
11. Oscar Javier Arevalo: *Role of tectonics and climate on the preserved record of a low net-to-gross ephemeral fluvial succession, South-Central Pyrenees, Spain* [1640-1700]
12. Simon Jackson: *Modelling fluvial, aeolian and lacustrine response to differential rates of accommodation generation in developing salt basins* [1700-1720]
13. Ru Wang: *Fluvial response to sea-level change: revised sequence stratigraphic models for different basin and climatic settings* [1720-1740]
14. Alistair Swan: *The effects of fluvial architecture on the internal heterogeneity of a medial distributive fluvial system outcrop, Upper Jurassic, Colorado* [1740-1800]
15. Justina James Saroni: *The Fluvial Architecture of the Price River Formation, Mesaverde Group, Book Cliffs, Utah, U.S.A.* [1800-1820]
16. Joseph Ainsworth: *A preliminary Ground Penetrating Radar study of Fluvial Architectures at Spierslack, Ayrshire, Scotland* [1640-1700]
17. Jose Montero: *Application of quantitative analysis of fluvial sedimentary architecture to improved facies and reservoir modelling workflows* [1700-1720]
18. Catherine Burns: *Constructing fluvial floodplain successions; a hierarchical approach to the characterization of crevasse-splay deposits* [1720-1740]
19. Na Yan: *A Stratigraphic Model of Fluvial Meander-Bend Evolution for 3D Facies and Architecture Prediction* [1740-1800]
20. Peter Wooldridge: *Anastomosing fluvial systems in the Tournaisian? An investigation into fluvial systems of the Lower Carboniferous, Ballagan formation, Scotland* [1800-1820]
21. William McMahon: *Negligible microbial matground influence on pre-vegetation river functioning: evidence from the Ediacaran-Lower Cambrian Series Rouge, France* [1640-1700]

22. Kirsten Dutton: *Microbially mediated carbonate mineralisation in extreme environment microbial mats* [1700-1720]
23. Maurice Tucker: *Mineral precipitates in modern microbial mats: crystallites, spheroids and the role of EPS* [1720-1740]
24. Andreas Paul: *The elusive link between pore-water chemistry and early cement phases: Case study from the shallow subsurface of the Abu Dhabi coastal sabkha* [1740-1800]
25. Irdawati Lokman: *Facies analysis of humid-tropical, syn- to early post-rift coastal plain deposits: the Miocene K Group of the Malay Basin* [1800-1820]
26. Stephen Lokier: *Sun, Sand and Salt: The continental sabkhas of Abu Dhabi* [1640-1700]
27. Stephen Lokier: *Underneath the Mangrove Tree: The complex facies of mangrove systems* [1700-1720]
28. David Millward: *The climatic implications of Lower Mississippian evaporites in equatorial northern Britain* [1720-1740]
29. Andrew Mitten: *The Scottish Carboniferous Research Park: Educating geoscientists in fluvial to marginal marine sedimentology and subsurface reservoir analogues* [1740-1800]

#### GROUP 2 – MARINE SEDIMENTARY ENVIRONMENTS

30. Andrew Mitten: *Calcioclastic mass flows from the Darriwilian/Sandbian boundary at Abereiddy Bay, Pembrokeshire, Wales, UK: Implications for Avalonian sea-level correlation* [1800-1820]
31. Aude Duval-Arnould: *Stratigraphic evolution of carbonate ramp and reef system along the Agadir-Essaouira Basin. Middle to Upper Jurassic Atlantic margin-western Morocco* [1640-1700]
32. Domenico Chiarella: *Cyclicity of toeset geometry as feature to recognize tide-modulated deposits* [1700-1720]
33. Domenico Chiarella: *Deltaic river-dominated to tide-influenced process regime change: a field-based example from the Lower Pleistocene of the Messina Strait (southern Italy)* [1720-1740]
34. Massimiliano Ghinassi: *Sedimentology and stratal architecture of subtidal point bars: an example from the Venice Lagoon (Italy)* [1740-1800]
35. Grant Cole: *Stratigraphy and Architecture of a Tectonically Influenced Shallow Water Delta Succession, Early Cretaceous Maestrat Basin, Spain* [1800-1820]
36. Bebhinn Anders: *Fluctuating sand supply to a prograding delta: provenance of the Mullaghmore Sandstone Formation, NW Carboniferous Basin, Ireland* [1640-1700]
37. William Mitchell: *The interaction of sediment systems and structurally-induced seafloor topography within a tectonically controlled intra-slope basin on the southern lobe of the Niger Delta* [1700-1720]
38. Grace Cosgrove: *New insights into wave-dominated deposition in continental shelf settings: high-resolution sediment character analysis from coeval topset, foreset and bottomset deposits* [1740-1800]
39. James Foey: *Predicting the Distribution of Shallow Marine Facies within Halokinetically Controlled Basins: Insights from the Upper Jurassic Fulmar Formation, UKCS* [1800-1820]
40. Keiran Blacker: *Linking in-situ geophysical and geotechnical properties of the Dogger Bank Formation to depositional and post-depositional processes* [1640-1700]
41. Andy Emery: *Role of deglaciation, sea-level rise and isostatic adjustment in marine transgression of the Dogger Bank* [1700-1720]
42. Eva Zimmer: *Seismic geomorphology linked to sequence stratigraphy of an Eocene shoreface in the Outer Moray Firth* [1720-1740]
43. Will Zhao: *Post-eruptive Submarine Terrace Development of Capelinhos, Azores* [1740-1800]
44. Ammar Balila: *Submarine slope channels and sand delivery to the basin floor in the pre-land plant world: a case study from a sediment-supply-driven succession in Arabia* [1800-1820]



45. Daan Beelen: *Shelf-edge trajectory analysis; the role of differential compaction* [1640-1700]
46. Michael Steventon: *Cliniform degradation, mass-transport complex (MTC) emplacement, and the healing of outer-shelf relief: a 3D seismic reflection case study from the Santos Basin, offshore Brazil* [1700-1720]
47. Hannah Brooks: *The long-term evolution of an exhumed deepwater stepped-slope profile* [1720-1740]
48. Cian McGuire: *Using benthic foraminifera to solve problems in deep-water sedimentary systems* [1740-1800]
49. Sophie Cullis: *The Deep-Marine Architectural Knowledge Store: A database approach to enhance meta-analyses of deep-marine systems* [1800-1820]
50. Zoe Roseby: *Deglacial history of the Anvers Palaeo-Ice Stream Trough, western Antarctic Peninsula* [1640-1700]
51. Keziah Blake-Mizen: *Reconstructing southern Greenland Ice Sheet history during the Plio-Pleistocene intensification of Northern Hemisphere glaciation: Insights from IODP Site U1307* [1700-1720]
52. Alex Piotrowski: *Reconstructing deep ocean circulation pathway and strength with grain-size-specific Nd isotopes on the lithic fraction of marine sediment* [1800-1820]
53. Charlotte Allen: *Evolution, processes and deposits of high latitude submarine fans* [1720-1740]
54. Daniel Bell: *Fundamentally Different Proximal and Distal Lobe Stacking Styles Within the Same Stratigraphic Interval: Upper Broto System, Jaca Basin, Spain* [1740-1800]
55. Qun Liu: *"Submarine Lobes" or "turbidite sheet sandstones", are they the same? Examples from the Carboniferous of NW Argentina* [1800-1820]
56. David Lee: *Applying neural network analysis to wireline data for the recognition of lobe sub-environments within basin-floor systems: a case study from the Karoo Basin* [1640-1700]
57. Kévin Boulesteix: *Deepwater mudrock depositional processes and sequence stratigraphy in the Permo-Triassic icehouse to greenhouse transition, Karoo Basin, South Africa* [1700-1720]
58. Tim Cullen: *The response of density underflows to rift basin floor topography and palaeoclimate: Examples from the Gulf of Corinth, Greece* [1720-1740]
59. Rachel Healy: *Thin-Bedded Turbidites; Characteristic Facies, Their Distribution and Process Sedimentology* [1740-1800]
60. Marta Payo Payo: *Trawling induced turbidity currents* [1800-1820]
61. John Torley: *Criteria for the recognition of supercritical bedforms and its implications on reservoir heterogeneity, insights from fieldwork-based studies, Morillo and Guaso Systems, Ainsa basin, Spain* [1640-1700]
62. Ross Ferguson: *Textural characteristics of deep-marine gravity flow deposits: Insights from the Aberystwyth Grits Formation, Cardigan Bay, Wales* [1700-1720]
63. Jaco Baas: *Bedforms and Primary Current Stratification Generated by Hybrid Flows: Examples from the Laboratory and the Aberystwyth Grits Formation* [1720-1740]

### GROUP 3 – MODELLING, EXPERIMENTS & SEDIMENT PROPERTIES

64. Isabella Masiero: *Orpheus: a new simple numerical model for mixed siliciclastic and carbonate sediment erosion, transport and deposition* [1740-1800]
65. Joana Silva: *Breaching Failure of Underwater Sediment Embankments* [1800-1820]
66. Isabel de Cala: *Testing the sensitivity of bedform phase space: flow velocity vs. sediment cohesion* [1640-1700]
67. Isabel de Cala: *Dune cross-stratification in turbidite systems* [1700-1720]
68. Maarten Heijnen: *Regimes of submarine channel evolution* [1720-1740]

69. Yvonne Spychala: *Lost in translation? Bridging the gap between lab and field– comparative studies of flume tank experiments and outcrop studies* [1740-1800]
70. Peeradon Samasiri: *Mixing in axisymmetric gravity currents* [1800-1820]
71. Megan Baker: *Know Your Clay: The Effect of Clay Mixtures on the Properties of Cohesive Sediment Gravity Flows* [1640-1700]
72. Andrew Manning: *Quantifying Flocculation Settling Dynamics of Natural Fine-grained Suspended Sediments: “Floccin’ Across the USA!”* [1700-1720]
73. Iris Verhagen: *The effect of early compaction on detrital grain-coating clays* [1720-1740]
74. Jack Walker: *Geochemical signals associated with ‘marine band’ formation in the Lower Carboniferous Bowland Shale Formation, Northern England* [1740-1800]
75. Alex Lipp: *Testing the use of sulfur isotopes and sulfur concentrations as facies indicators in Precambrian and Phanerozoic sedimentary rocks* [1800-1820]
76. Michael Morton: *Sedimentology and Geochemistry of Eocene-Early Miocene Source Rocks from Paratethys* [1640-1700]
77. Auwalu Yola Lawan: *Predicting sedimentary facies using non-destructive core log X-ray fluorescence geochemistry: Comparing the Brent Group and Cook Formation, North Sea* [1700-1720]
78. James Mullins: *The application of Process-based sedimentological models as training images for Multi Point Statistics: A case study from the Ferron Sandstone, Utah* [1720-1740]

#### GROUP 4 – SEDIMENTARY BASINS, TECTONICS & VOLCANICS

79. Sean O'Neill: *Where has all the porosity gone?: Linking pore pressure evolution and reservoir quality in the Taranaki Basin, New Zealand* [1740-1800]
80. Sunday Okunuwadje: *Preliminary studies of diagenetic controls on Cenozoic clastic reservoir analogues, Southern California, USA* [1800-1820]
81. Catherine Breislin: *Basin-Scale Mineral and Fluid Processes at a Lower Carboniferous Platform Margin* [1640-1700]
82. Romesh Palamakumbura: *Pliocene-Pleistocene sedimentary-tectonic development of the Mesaoria (Mesarya) Basin, in northern Cyprus, in an incipient, diachronous collisional setting* [1700-1720]
83. Gloria Heilbronn: *Constraining onset of deformation in Pai-Khoi fold-and-thrust belt (Russia), via multi-proxy provenance study* [1720-1740]
84. Amy Gough: *The evolution of the Lahat, Lemat, and Talang Akar formations of the South Sumatra Basin, Southeast Asia* [1740-1800]
85. Robert Raine: *Stratigraphy and reservoir quality of the Permian in Northern Ireland* [1800-1820]
86. Steven Andrews: *Stratigraphic development of the Permian to Triassic of East Greenland: An expanded and complete P-T boundary succession?* [1640-1700]
87. Edward Fleming: *Investigating the impact of the Hornsund High on Triassic sedimentation in the western Barents Shelf* [1700-1720]
88. Mohit Tunwal: *Thermal history modelling in an extensional basin* [1720-1740]
89. Lloyd White: *Characterising the variation in heavy and light mineral modes from some of Indonesia’s most explosive volcanoes (Merapi, Bromo, Sinabung and Toba)* [1740-1800]
90. Guohui Chen: *Geochemical discrimination of Upper Cretaceous volcanoclastic sediments: Kannaviou Formation, W Cyprus* [1800-1820]
91. Dominique Tanner: *High-temperature silica maturation causes non-equilibrium isotope fractionation beneath the El Indio paleofumarole: implications for diagenesis* [1640-1700]

## Schedule At-A-Glance

### Monday 19th December

Time	Wolfson Theatre	Jock Colville Hall	JCR Games Room
730	Breakfast (only for delegates staying in Churchill) (Dining Hall)		
745			
800			
815			
830	Welcome		
	<b>1 - Keynotes/General</b>		
845	Burgess keynote		
900			
915	Eggenhuisen keynote		
930			
945	Hartley		
1000	Wells		
1015	Baas		
1030	Coffee & Discussion (Buttery)		
1045			
	<b>2A - Deep Marine I</b>	<b>2B - Shallow Marine</b>	<b>2C - Climate/Glacial I</b>
1100	Apps	Keevil	Atar
1115	Southern	Slootman	Ebinghaus
1130	Palm	A de Leeuw	Steiner
1145	Tokes	Rahman	Vickers
	<b>3A - Deep Marine II</b>	<b>3B - Alluvial fans/S2S</b>	<b>3C - Climate/Glacial II</b>
1205	J de Leeuw	Nyberg	Busfield
1220	Cornard	Stokes	Vandyk
1235	Pulham	Brooke	Le Heron
1250	Gladstone	Watkins	Davison
1305	Lunch (Dining Hall)		
1315			
1330			
1345			
	<b>4 - Keynotes</b>		
1355	Alexander		
1410			
1425	Ghinassi		
1440			
	<b>5A - Modern Deep Mar.</b>	<b>5B - Life &amp; Sediment</b>	<b>5C - Provenance</b>
1500	Cartigny	N Davies	Franklin
1515	Azpiroz	Bradley	Grieg
1530	PayoPayo	Shillito	Fairey
1545	Hage	Bennett	Liebermann
1600	Stevenson	Noad	Yao
1615	Coffee & Discussion (Buttery)		
1630			
	<b>6 - General Poster Session</b>		
1640	Poster Session Presentations - see next page		
1700	Poster Session Presentations - see next page		
1720	Poster Session Presentations - see next page		
1740	Poster Session Presentations - see next page		
1800	Poster Session Presentations - see next page		
1820			
1900	Conference Dinner (St. John's College)		

### Tuesday 20th December

Time	Wolfson Theatre	Jock Colville Hall	JCR Games Room
730	Breakfast (only for delegates staying in Churchill) (Dining Hall)		
745			
800			
815			
830			
845	AGM		
900			
915			
	<b>7 - Keynotes/General</b>		
930	Robertson		
945			
1000	S Davies		
1015	Peakall		
1030	Sinclair		
1045	Coffee & Discussion (Buttery)		
1100			
	<b>8A - Subaqueous</b>	<b>8B - Carboniferous</b>	<b>8C - Tectonics</b>
1115	Dodd	Newport	Blayney
1130	Gomes-Cartesio	Emmings	Wilkinson
1145	Poyatos-More	Manifold	Vincent
	<b>9A - Deep Marine III</b>	<b>9B - Seismic/Sequence</b>	<b>9C - Carbonates</b>
1205	Zhao	Luber	Hough
1220	Pizzi	Barrett-Crosdil	Tang
1235	Patacci	Jackson	Smith
1250	OrtizKarpf	Russell	Paul
1305	Lunch (Dining Hall)		
1315			
1330			
1345			
	<b>10 - Keynote</b>		
1355	Gupta		
1410			
	<b>11A - Continental I</b>	<b>11B - Modelling I</b>	<b>11C - Architecture</b>
1430	Banham	Pohl	Gray
1445	McMahon	Ho	McArthur
1500	McKellar	Jarvis	Hofstra
1515	Cripps	Vellinga	Privat
	<b>12A - Continental II</b>	<b>12B - Modelling II</b>	<b>12C - Clay Minerals</b>
1535	Medici	Bath Enright	Wooldridge
1550	Owen	Baker	Griffiths
1605	Shiers	Sher	Jeans
1620	Coffee & Discussion (Buttery)		
1635	Meeting Closes		

## Poster Presentations

*Poster session runs 1640-1840 on Mon 19th Dec, but presenters guaranteed in attendance for presentation during the following slots*

	GROUP 1	GROUP 2	GROUP 3	GROUP 4
	Continental	Marine	Modelling	Basins
1640-1700	Ainsworth	Anders	Baker	Andrews
	Arevalo	Beelen	de Cala 1	Breislín
	Lokier 1	Blacker	Morton	Tanner
	McMahon	Duval-Arnould		
	Pettigrew	Lee		
	Szocs	Roseby		
		Torley		
1700-1720	Ebinghaus	Chiarella 1	de Cala 2	Palamakumbara
	Dutton	Blake-Mizen	Lawan	Fleming
	Jackson	Boulesteix	Manning	
	Lokier 2	Emery		
	Montero	Ferguson		
	Whittaker	Mitchell		
		Steventon		
1720-1740	Woodcock	Chiarella 2	Heijnen	Heilbronn
	Burns	Allen	Mullins	Tunwal
	Millward	Baas	Verhagen	
	Sinclair	Brooks		
	Tucker	Cullen		
	Wang	Zimmer		
1740-1800	R Burgess	Ghinassi	Masiero	O'Neill
	Mitten 1	Bell	Spychala	Gough
	Paul	Cosgrove	Walker	White
	Perkins	Healey		
	Swan	McGuire		
	Yan	Zhao		
1800-1820	Pierce	Cole	Silva	Okunuwadje
	Lokman	Balila	Lipp	Chen
	P Wooldridge	Cullis	Samasiri	Raine
	Saroni	Foey		
	Somerville	Liu		
		Mitten 2		
		Payo Payo		
		Piotrowski		